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Fig. 3

A

HSC	PNK mNK (-OP9)	mNK (+OP9)	Unigene Genebank ID	Gene Name
			Id	
			Mm.1356 BC009100	similar to ribosomal protein S4, X-linked
			Mm.13944 BC031746	Similar to ribosomal protein S9
			Mm.7723 NM_019402	poly(A) binding protein, nuclear 1
			Mm.13917 BC007139	ribosomal protein L22
			Mm.10706 BC003459	RIKEN cDNA 2010004J23 gene
			Mm.18516 AK002928	unnamed protein product; H3 histone, family 3B
			Mm.6343 AK005420	unnamed protein product; nucleophosmin 1
			Mm.30141 AK002604	guanine nucleotide binding protein, beta 2
			Mm.197601 BC024385	heat shock 10 kDa protein 1 (chaperonin 10)
			Mm.5043 BC025814	FBJ osteosarcoma oncogene
			Mm.45354 AK014157	unknown EST (CBJ0070284)
			Mm.18700 AK010851	no description
			Mm.482 BC021888	Unknown (protein for MGC:11557)
			Mm.29571 BC005766	RIKEN cDNA 1200017E04 gene
			Mm.27927 AK007802	unnamed protein product; heterogeneous nuclear
			Mm.29460 BC008610	adenylate kinase 2
			Mm.24108 BC027546	mitochondrial ribosomal protein S21
			Mm.81475 AK008859	unnamed protein product; hypothetical protein
			Mm.29265 AK013416	unnamed protein product; LIM only 2
			Mm.41780 AK003187	guanine nucleotide binding protein (G protein)
			Mm.34319 AK004872	unnamed protein product; putative
			Mm.29743 BC006603	Similar to hypothetical protein MGC9133
			Mm.47914 BC039290	no description
			Mm.18688 BC006774	Similar to transmembrane trafficking protein
			Mm.1141 AK017863	unnamed protein product; hepatoma-derived growth
			Mm.18087 BC003754	lectin, galactose binding, soluble 9
			Mm.142822 AK014366	unnamed protein product; Ewing sarcoma homolog
			Mm.46631 AK003092	unnamed protein product; hypothetical UbiA
			Mm.16660 BC008549	Similar to Protein disulfide isomerase
			Mm.22385 AK002566	hypothetical PA-phosphatase related phosphoesterase
			Mm.25709 BC016573	inhibitor of growth family, member 1
			Mm.182318 AK010596	proteasome (prosome, macropain) 25S subunit
			Mm.159864 AK020375	unclassified
			Mm.28550 AK011415	unknown EST (CBJ0076153)
			Mm.1187 BC038340	hydroxysteroid (17-beta) dehydrogenase 11
			Mm.196484 BC006512	Similar to cysteine rich protein
			Mm.30245 BC003217	Similar to phosphatidylserine decarboxylase
			Mm.140838 AK007351	unnamed protein product; putative
			Mm.1843 AK004658	unnamed protein product; heat shock protein, 86 kDa
			Mm.30149 U45978	Cab45b
			Mm.21507 AK007569	coated vesicle membrane protein (MGD) (MG1192925)
			Mm.2338 AY044241	glutamine synthetase
			Mm.29153 BC018324	RIKEN cDNA 2610205H19 gene
			Mm.24036 BC004080	Similar to KIAA0171 gene product
			Mm.6579 AK010718	unnamed protein product; centromere autoantigen A
			Mm.28286 BC034675	Similar to RIKEN cDNA 493140620 gene
			Mm.34497 BC014865	RIKEN cDNA 2510002C21 gene
			Mm.46503 BC027739	203B1 200 not found
			Mm.117055 BC020076	RIKEN cDNA 4432412015 gene
			Mm.28550 BC019118	Similar to RASG, member RAS oncogene family
			Mm.631 BC012571	Unknown (protein for IMAGE:4036523)
			Mm.29515 BC027351	Unknown (protein for MGC:36924)
			Mm.18472 AK012174	protein product; 26S PROTEASE REGULATORY
			Mm.21892 AK011324	evidence:NAS
			Mm.238874 BC039578	no description
			Mm.24868 BC025547	Similar to CGI-147 protein
			Mm.214645 BC013457	Similar to hyaluronoglucosaminidase 3
			Mm.4079 BC025744	Similar to hypothetical protein FLJ12750
			Mm.27330 NM_020618	SWI/SNF related, matrix associated, actin
			Mm.131615 AK075078	transcription factor MLR1
			Mm.535 AK002455	unnamed protein product; putative
			Mm.25452 AK004116	unnamed protein product; SIGNAL RECOGNITION
			Mm.29924 BC010196	Unknown (protein for MGC:7110)

B

HSC	PNK mNK (-OP9)	mNK (+OP9)	Unigene Genebank ID	Gene Name
			Id	
			Mm.1583 M18466	lymphocyte differentiation antigen
			Mm.4235 ME4252	c-kit ligand
			Mm.3939 L20315	MPS1 protein
			Mm.143755 BC027328	Similar to bone marrow stromal cell antigen 2
			Mm.16251 AK008429	unnamed protein product; proteasome
			Mm.4560 BC032170	Unknown (protein for IMAGE:5346882)
			Mm.30111 BC038025	Unknown (protein for IMAGE:3966957)
			Mm.159648 BC027496	RIKEN cDNA 5830413L19 gene
			Mm.153 M10416	beta-2 microglobulin mRNA
			Mm.1508 BC002055	Similar to benzodiazepine receptor, peripheral
			Mm.30071 AK013963	unnamed protein product; lysosomal-associated
			Mm.13705 AK019964	unnamed protein product; putative
			Mm.24045 AK010906	unnamed protein product; putative
			Mm.14302 D83548	C-C chemokine receptor 5
			Mm.29586 AK011545	BRAIN ACID SOLUBLE PROTEIN 1 (BASPI PROTEIN)
			Mm.3189 U83172	cell-surface glycoprotein p91
			Mm.10309 BC038070	Similar to Fc receptor, IgG, low affinity IIB
			Mm.15571 X53379	no description
			Mm.9277 AK005158	unnamed protein product; phospholipase A2 group VII
			Mm.2656 M59378	tumor necrosis factor receptor 1
			Mm.46356 BC023802	Similar to hypothetical protein FLJ11000
			Mm.34126 AF330052	retinoid-inducible serine carboxypeptidase
			Mm.235 BC019850	ubiquitin B
			Mm.3074 AK007265	unnamed protein product; putative
			Mm.88349 AK014282	protein product; SMALL MEMBRANE PROTEIN 1
			Mm.45579 AF110803	interleukin-18 binding protein precursor
			Mm.31178 BC037615	Ras-related GTP-binding protein ragA
			Mm.30270 BC001582	proteasome (prosome, macropain) subunit, alpha
			Mm.22727 AK009435	chloride channel 7 (MGD) (MG1347048)
			Mm.205022 BC030186	Similar to putative zinc finger protein
			Mm.57975 BC010476	RIKEN cDNA 1600014C10 gene
			Mm.1314 U13371	unknown
			Mm.193934 AK007777	unnamed protein product; B cell phosphoinositide
			Mm.2970 J03723	carbohydrate binding protein 35
			Mm.151104 AK021301	unnamed protein product; PROTEIN HSPC163 homolog
			Mm.220949 BC002092	v-maf musculoaponeurotic fibrosarcoma oncogene
			Mm.28337 AK014605	HYPOTHETICAL HEART PROTEIN (FRAGMENT)
			Mm.1387 NM_017382	RAB11a, member RAS oncogene family
			Mm.45161 AK009377	unnamed protein product; putative
			Mm.39281 BC031464	RIKEN cDNA 5830498C14 gene
			Mm.167842 BC012667	Similar to integrin-associated protein
			Mm.23717 BC008129	14-3-3 protein gamma-subtype
			Mm.153911 AK009211	unnamed protein product; plastin 2
			Mm.22711 BC003290	cyclin I
			Mm.1374 Z36233	siadhesin
			Mm.205010 BC014875	Unknown (protein for MGC:6520)
			Mm.29194 AK007070	POTASSIUM CHANNEL MODULATORY FACTOR homolog
			Mm.35389 AK005336	unnamed protein product; cytochrome c, somatic
			Mm.27300 BC019427	Similar to hydroxysteroid 17-beta dehydrogenase
			Mm.135290 BC027371	Similar to RIKEN cDNA 4930434H03 gene

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Fig. 3

C

HSC	pNK _h NK (-OP9)	mNK (+OP9)	Unigene Genebank ID	Gene Name
			Mm.13020 NM_009438	ribosomal protein L13a
			Mm.15085 BC002065	Unknown (protein for MGC6156)
			Mm.28149 AK013984	unknown EST (G8)AW555045)
			Mm.213045 BC023908	Similar to heterogeneous nuclear
			Mm.221288 BC028949	Similar to RIKEN cDNA 9030624 G23 gene
			Mm.1034 BC006605	protein phosphatase 2 (formerly 2A), regulatory
			Mm.899 BC003828	Similar to RAS-related C3 botulinum substrate 1
			Mm.30864 BC004747	Similar to Kruppel associated box (KRB) zinc
			Mm.196581 BC006708	Similar to mitogen activated protein kinase 1
			Mm.22435 BC003961	Similar to RIKEN cDNA 5730410D03 gene
			Mm.200518 BC015245	solute carrier family 6 (neurotransmitter)
			Mm.22506 BC027314	G7e protein
			Mm.20491 AB041553	hypothetical protein
			Mm.35837 AK005111	weakly similar to PPI065 (Homo sapiens)
			Mm.22670 AK004719	unnamed protein product; putative
			Mm.171547 BC026634	Similar to coronin, actin binding protein, 2A
			Mm.148782 BC010215	pleckstrin homology domain-containing, family A
			Mm.99677 AK017659	unnamed protein product; hypothetical Serine-rich
			Mm.14145 X03802	T cell receptor gamma chain
			Mm.22061 BC025800	sema domain, immunoglobulin domain (Ig)
			Mm.2389 L17069	Al1-1 protein
			Mm.15479 NM_013543	estradiol 17 beta-dehydrogenase 8
			Mm.27094 AK009218	unnamed protein product; NUCLEAR PROTEIN SKIP
			Mm.59049 AF155546	hypothetical protein
			Mm.21606 AB046114	reticulum 3
			Mm.12193 BC003985	Similar to 60S ribosomal protein L30 isolog

D

HSC	pNK _h NK (-OP9)	mNK (+OP9)	Unigene Genebank ID	Gene Name
			Mm.29911 AK014294	unnamed protein product; RIBOSOMAL PROTEIN S271
			Mm.41746 BC010967	Similar to RNA polymerase II transcriptional
			Mm.13886 BC010791	suppressor of initiator codon mutations
			Mm.175612 AF457251	cyclin ania-6a
			Mm.321 AF515708	osteopontin
			Mm.28349 BC013640	Similar to MIP65 protein
			Mm.196616 AK019465	Y box protein 3 (MGD) (MG1:1096351)
			Mm.14255 AK021331	amyloid beta (A4) precursor protein-binding, family
			Mm.216195 AF486451	from a Homo sapiens melanoma cell line infected
			Mm.20183 AK021021	unnamed protein product; hypothetical protein
			Mm.205030 BC023898	Similar to eukaryotic translation initiation
			Mm.3785 AK012612	unknown EST (G8)AU090327)
			Mm.142195 AK008670	unnamed protein product; putative
			Mm.204990 BC011285	Unknown (protein for MGC7004)
			Mm.27880 BC026856	CUG triplet repeat, RNA binding protein 2
			Mm.196585 BC023905	Similar to SKB1 homolog (S. pombe)
			Mm.3380 AK014590	unnamed protein product; KINESIN HEAVY CHAIN
			Mm.123648 BC024054	Similar to platelet activating receptor homolog
			Mm.3420 L28117	no description
			Mm.4143 D78188	scid lung fibroblast cell line established by SV40
			Mm.143830 BC013616	alpha actinin 4
			Mm.205421 BC022140	Unknown (protein for IMAGE:5101040)
			Mm.24138 BC005676	Similar to Cell surface glycoprotein CD44
			Mm.10702 AK013924	calyculin binding protein (MGD) (MG1:1270839)
			Mm.30177 AK004388	unnamed protein product; hypothetical protein
			Mm.63573 AK011125	unnamed protein product; hypothetical Trp-Asp (HD)
			Mm.103551 AK016482	unnamed protein product; putative
			Mm.27818 BC002233	Unknown (protein for IMAGE:3431454)
			Mm.4948 BC032149	Fyn proto-oncogene
			Mm.89061 AK013831	unnamed protein product; putative
			Mm.154503 AK014474	unnamed protein product; hypothetical Vacuolar
			Mm.27194 AK008430	DNA segment, Chr 7, Roswell Park 2 complex
			Mm.22358 AK008637	DNA-DIRECTED RNA POLYMERASE III 12.5 kDa
			Mm.43750 BC010484	signal peptidase complex (18kd)
			Mm.200372 BC019444	coronin, actin binding protein 1C

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Fig. 3

	HSC	pNK	mNK	Unigene Genebank ID	Gene Name
				BC002055	benzodiazepine receptor
				Z36233	sialoadhesin
				BC029900	serine protease inhibitor 6
				AF143539	decay accelerating factor
				AF106008	NK cell protein group 2-A1
				AB033769	NK receptor Ly-49Q
				AF110803	IL-18 binding protein d precursor
					inhibition of NK activity
					functions as an inhibitory receptor in human NK cells
					suppression of exocytosis(perforin and granzyme) from NK cells
					inhibition of human NK cytotoxicity
					an inhibitory receptors
					predicted to function as an inhibitory receptor
					inhibition of NK cells responses

	HSC	pNK	mNK	Unigene ID	Genebank ID	Gene Name
				X01023		c-myc protein
				BC005676		CD44
				AF013274		type I interferon receptor
				L24495		CD27
				BC006708		mitogen activated protein kinase 1
				AF082803		NK cell receptor 2B4 splice variant
				U12889		Ly49H
				BC039947		phospholipase A2, group IVB
				AJ440756		IL-1 receptor-associated kinase 2
				M60778		lymphocyte function-associated molecule-1- α
				NM_007589		calmodulin 2
				AF054581		IL-2 receptor
				AF515708		osteopontin
				BC025597		Ca ²⁺ /calmodulin-dependent protein kinase II γ
				BC031121		protein kinase C, ϵ ta
				BC004714		heat shock protein, 70 kDa 2
				L29480		serine/threonine kinase
				M27266		p53fyn
				BC029727		zeta-chain (TCR) associated protein kinase
				X53594		mature HSP60 protein
				AB062122		protein kinase C theta II
				BC030928		mitogen activated protein kinase kinase kinase 11
				AB032200		granzyme K
				BC012653		Similar to chemokine (C-X3-C) receptor 1
				AF030313		NKG2D
				U74663		dipeptidyl peptidase I precursor
				X54151		MIP-1 alpha receptor
				M14222		cathepsin B proteinase
				BC004808		signal transducer and activator of transcription 1
				AF213389		ATP-binding cassette protein
				BC011092		chemokine (C-C) receptor 1
				M10416		beta-2 microglobulin mRNA
						activates NK cytotoxicity
						upregulates NK cytotoxic activity
						increases NK cytotoxicity
						mediates activation of murine NK cells
						involvement in NK lysis of tumor cells
						activates NK cell mediated cytotoxicity and induces secretion of IFN- γ
						activating natural killer receptor
						involvement in the cytotoxic functions of rat NK cells
						induction of NK cytotoxicity by IL-18
						required for IL-12-induced NK cell cytotoxicity
						induction of NK cells activation
						NF-kappa B activation in perforin expression of NK cells
						upregulated in activated murine NK cells
						induces release of perforin and granzyme and secretion of IFN-gamma
						stimulates NK activity
						interacts with NK receptor CD94 and stimulates NK activity
						activates NK cytotoxicity
						required NK cell-mediated lysis of target cells
						Engagement of the NK cell IgG Fc receptor results in tyrosine phosphorylation of the ζ chain.
						interferes with CD94/NKG2A inhibitory receptor recognition
						stimulates NK activity
						activates NK cell function
						triggers DNA fragmentation
						Dual functions of fractalkine/CX3C ligand 1 in trafficking of perforin+granzyme B+ cytotoxic effector lymphocytes
						triggers cytotoxicity in mouse NK cells
						requirement for the intracellular processing of granzyme A and granzyme B
						increases NK cytotoxicity
						protect NK cells from self-destruction after degranulation.
						requirements for in NK cell functions
						recruitment and activation of NK cells
						recruitment of NK cells
						enhancement of NK cell-mediated lysis via RAE1/NKG2D interactions